

9900040

# HHIB UNIVERD SYRVIES OF ANTERIOA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

# Asgrob Seed Company LIG

MICTORS, THERE HAS BEEN PRESENTED TO THE

# Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART-HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPETED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC PLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE VITO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR TINGIT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE URROSE; OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

#### SOYBEAN

'AG3901'

In Jestimonn Merror, I have hereunto set my hand and caused the seal of the Plant Anriety Arotextion Office to be affixed at the City of Washington, D.C. this fifth day of February, in the year of our Lord two thousand one.

Clarkfort

Acting Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Do

Secretary of Agriculture

A ODIA III THE COLOR OF THE COL	all reproductions.	The following season	FORM APPROVED - OMB NO. 0581-0	
AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PRO	The following statements are made in accordance with the Privacy Act 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.			
APPLICATION FOR PLANT VARIETY PROTECTION (Instructions and information collection burden state)	Application is required in order to determine if a plant variety protect certificate is to be issued (7 U.S.C. 2421). Information is held confider until certificate is issued (7 U.S.C. 2426).			
NAME OF APPLICANT(S) les it is to appear on the Certificate)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME		
Aggress Co. 4 C.				
Asgrow Seed Company LLC		AGC39701	AG3901	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Co	untry)	5. TELEPHONE (include area code)		
P.O. Box 7570 4140 114th Street		515-331-7100	PVPO NUMBER 990040	
Des Moines, IA 50322		6. FAX (include area code)	F DATE	
		515-331-7110	10/30/98	
7. GENUS AND SPECIES NAME	8. FAMILY NAME (Botan	ical)	G STANG AND EXAMPLE	
Glycine max	Legum	nosae	FLING AND EXAMINATION FEE:	
CROP KIND NAME (Common name)			E DATE	
Soybean			10/38/19	
D. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZA	ATION (corporation, partners)	ip, association, etc.) (Common name)	C CERTIFICATION FEE:	
. IF INCORPORATED, GIVE STATE OF INCORPORATION		T	11 320 -	
Corporation		March 22, 1968	D DATE 11/03/00	
. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SER	IVE IN THIS APPLICATION A	ND RECEIVE ALL BARERO		
Donald Steffen	Trent Leopo	1d	14. TELEPHONE (include area code)	
Asgrow Seed Company LLC	Asgrow Seed	Company	515-331-7146 515-331-7148	
P.O. Box 7570	P.O. Box 75		16. FAX (include area code)	
4140 114th Street	4140 114th		515-331-7110	
Des Moines, IA 50322	Des Moines,	IA 50322	515-331-7110 515-331-7130	
CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow in a. Exhibit A. Origin and Breeding History of the Variety	nstructions on reverse!		1 110-221-7130	
b. X Exhibit B. Statement of Distinctness				
c. 🖾 Exhibit C. Objective Description of the Variety				
- Allery or objective peachbright of the vallety	and the second second			
d. X Exhibit D. Additional Description of the Variety (Optional)			1.00	
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d. X Exhibit D. Additional Description of the Variety (Optional)  e. X Exhibit E. Statement of the Basis of the Applicant's Ownership  f. X Voucher Sample (2,500 viable untreated seeds or, for tuber propagated	I varieties verification that tis:	we culture will be deposited and maintaine	d in an approved public repository)	
d. X Exhibit D. Additional Description of the Variety (Optional)  e. X Exhibit E. Statement of the Basis of the Applicant's Ownership	* United States" (Affail to PVP /ARIETY NAME ONLY, AS A	CLASS OF CERTIFIED SEED? (See Section		
d. Exhibit D. Additional Description of the Variety (Optional)  e. Exhibit E. Statement of the Basis of the Applicant's Ownership  f. Voucher Sample (2,500 viable untreated seeds or, for tuber propagated  g. Filling and Examination Fee (22,450), meda psyable to "Tressurer of the  DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY V  YES 81 "yes," answer items 18 and 19 below!  DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED A	ARIETY NAME ONLY, AS A NO III "no," go to	0; CLASS OF CERTIFIED SEED? (See Section item 20)	83(a) of the Plant Variety Protection Act)	
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### ASGROW SEED COMPANY PVP APPLICATION AG3901

#### **EXHIBIT A**

# ORIGIN AND BREEDING HISTORY OF AG3901

- 1993 Cross RP931224C94-39136 was made near Isabela, Puerto Rico. Parentage: A4595\*A4009\*A3237\*A4138\*40-3-2
- 1993-4 F1 & F2 generations were grown near Isabela, Puerto Rico and advanced using modified pedigree selection.
- 1994 F3 Bulk Populations were grown in Stonington, Illinois and single plants pulled.
- 1994-5 F3 derived F4 plants were grown in Rancagua, Chile in progeny rows, and row RP931224C94-39136 was selected based on agronomic characteristics.
- 1995 F3:5 RP931224C94-39136 was entered in a yield test at 4 locations in the upper Midwest, where it placed 3<sup>rd</sup> of 42 entries.
- F3:6 RP931224C94-39136 was entered in a yield test at 12 locations in the upper Midwest, where it placed 2<sup>nd</sup> of 60 entries.

AG3901 is uniform and stable within commercially acceptable limits based on trial observations since 1996. As with any other soybean variety, variants can occur for almost any characteristic during the course of repeated sexual reproduction.

# ASGROW SEED COMPANY PVP APPLICATION AG3901

# **EXHIBIT B**

# Novelty Statement Concerning AG3901 Soybean

To our knowledge, the soybean varieties that closely resemble AG3901 are A3237, A4138, A3559:

1. Flower color	AG3901	- White
	A3237	- Purple
	A4138	- White
	A3559	- Purple
2. RR™ gene	AG3901	- Present
(Tolerance to glyphosate herbicide)	A3237	- Absent
	A4138	- Absent
	A3559	- Absent
3. Soybean cyst nematode resistance	AG3901	- Mod.Res3, Susc14
(Race 3 and Race 14)	A3237	- Susceptible
•	A4138	- Res3, Mod.Res14
	A3559	- Res3, Mod.Res14
4. PRR gene	AG3901	- rps (susceptible)
(Tolerance to Phytophthora Root Rot)	A3237	- Rps1k
, , , , , , , , , , , , , , , , , , ,	A4138	- rps (susceptible)
	A3559	- Rps1c
		x.po.r.o

EXHIBIT C (Soybean)

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

# **OBJECTIVE DESCRIPTION OF VARIETY**

		SOYBE	AN (Glycin	e max L.)		
NAME O	F APPLICANT(S)		TEMPORAR	Y DESIGNATION	VARIETY NAME	·
As	grow Seed Company	LLC	AGG	39701	AG390	01
ADDRES	S (Street and No., or R.F.D. No., C	City, State, and Zip Co.	ode)		FOR OFFIC	IAL USE ONLY
	0. Box 7570		•	ļ.	PVPO NUMBER	
	40 114th Street s Moines, IA 50	322			9900	040
in your a	the appropriate response which answer is fewer than the number than acters * are considered function is available.	r of boxes provided	l, place a zero	in the first box wh	ien number is 9 or le:	ss (e.g., 0 9).
1. SEED	SHAPE:	$\Theta$ 0				<u> </u>
	1 = Spherical (L/W, L/T, and T/W ra 3 = Elongate (L/T ratio > 1.2; T/W	L	T   2 = S		_/W ratio > 1.2; L/T rat /T ratio > 1.2; T/W >	
2. SEED	COAT COLOR: (Mature Seed)		:	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
1	1 = Yellow 2 = Green	3 = Brown	4 = Black	5 = Other <i>(S</i>	Specify)	
3. SEED O	COAT LUSTER: (Mature Hand She	ilad Saed)				
1	1 = Dull ('Corsoy 79'; 'Braxton')	2 = Shiny ('Nebs	oy'; 'Gasoy 17')			
4. SEED S	SIZE: (Mature Seed)	•				
1 5	Grams per 100 seeds		•			
5. HILUM	COLOR: (Mature Seed)		· · · · · · · · · · · · · · · · · · ·			
	= Buff 2 = Yellow	3 = Brown	4 = Gray	5 = Imperfect Black	c 6 = Black	7 = Other (Specify)
6. COTYL	EDON COLOR: (Mature Seed)				····	
1 1	= Yellow 2 = Green					
7. SEED P	ROTEIN PEROXIDASE ACTIVITY	<b>′:</b>		2.5		<u> </u>
2 1	= Low 2 = High					
8. SEED PI	ROTEIN ELECTROPHORETIC BA	ND:				<del>*************************************</del>
2 1	= Type A (SP1 <sup>a</sup> )	2 = Type B (SP1 <sup>b</sup> )				
9. HYPOCO	OTYL COLOR:					
3 ليكا	= Green only ('Evans'; 'Davis') = Light Purple below cotyledons ('I = Dark Purple extending to unifolia	Beeson'; 'Pickett 71')		elow cotyledons (*W	oodworth'; 'Tracy')	
O. LEAFLE	T SHAPE:					
3 1	= Lanceolate 2 = Oval	3 = Ovate	4 = Ot	her (Specify)		•

_	
2	1 = Small ('Amsoy 71'; 'A5312') 2 = Medium ('Corsoy 79'; 'Gasoy 17') 3 = Large ('Crawford'; 'Tracy')
12. LE/	AF COLOR:
2	1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Corsoy 79'; 'Braxton') 3 = Dark Green ('Gnome'; 'Tracy')
13. FLC	WER COLOR:
1	1 = White 2 = Purple 3 = White with purple throat
14. POE	COLOR:
1	1 = Tan 2 = Brown 3 = Black
15. PLA	NT PUBESCENCE COLOR:
2	1 = Gray 2 = Brown (Tawny)
16. PLA	NT TYPES:
1	1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amcor'; 'Braxton') 3 = Bushy ('Gnome'; 'Govan')
17. PLA	NT HABIT:
Γ_	1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will')
<u>[3</u>	3 = Indeterminate ('Nebsoy'; 'Improved Pelican')
18. MAT	3 = Indeterminate ('Nebsoy'; 'Improved Pelican')  URITY GROUP:  1 = 000
18. MAT	3 = Indeterminate ('Nebsoy'; 'Improved Pelican')  URITY GROUP:  1 = 000
18. MAT	3 = Indeterminate ('Nebsoy'; 'Improved Pelican')  URITY GROUP:  1 = 000
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18. MAT  0 6  19. DISE  BA  C  FUN	URITY GROUP:  1 = 000
18. MAT  0 6  19. DISE  BA  C  FUN	URITY GROUP:    1 = 000

19	). DISEA	SE REACTIO	N: (Enter 0 = Not 1	fested; 1 = Susceptible;	2 = Resistant) (	Continued)			· · · · · · · · · · · · · · · · · · ·
	FUN	GAL DISEAS	SES: (Continued)						
<b>★</b>		Pod and Ste	em Blight <i>(Diaporthe</i>	phaseolorum var; sojae,	!	./			
	0	Purple Seed	Stain (Cercospora k	ikuchii)		••	•		
	0	Rhizoctonia	Root Rot (Rhizect	onia solani)					
		Phytophtho	ra Rot (Phytophtho	ra megasperma var. sojae	<u>)                                    </u>				
*		Race 1	1 Race 2	1 Race 3 1	Race 4	1 Race	5 1	Race 6	1 Race 7
	1	Race 8	1 Race 9	Other (Specify)					· · · · · · · · · · · · · · · · · · ·
	VIRA	L DISEASES	<b>:</b> :						
	0	Bud Blight (	Tobacco Ringspot V	'irus)					
	0	Yellow Mosa	aic (Bean Yellow Mo	saic Virus)			•		
*	0	Cowpea Mos	aic (Cowpea Chloro	tic Virus)			•		
	0	Pod Mottle (	Bean Pod Mottle Vis	·us)					
*	0	Seed Mottle	(Soybean Mosaic Vi	rus)					
	NEMA	ATODE DISE	ASES:						
•		Soybean Cys	t Nematode (Hetero	dera glycines)				·	
*	0	Race 1	0 Race 2	2 Race 3	0 Race 4	1 Other	(Specify) Ra	ce 14	
	0	Lance Nema	tode (Hoplolaimus C	olombus)					
*	0	Southern Ro	ot Knot Nematode /	Meloidogyne incognita)					
*		•	*	Meloidogyne Hapla)					
			Knot Nematode (Me						
			matode ( <i>Rotylenchu</i>					•	
			EASE NOT ON FOR	1					
	<u> </u>								
20.	PHYSIO	OGICAL RE	SPONSES: (Enter C	= Not Tested; 1 = Susc	eptible; 2 = Resi	stant)			
*	1	Iron Chiorosi:	on Calcareous Soil			•			*.
٠		Other <i>(Specif</i>	v)			·			
21.			•	ed; 1 = Susceptible; 2 =	Recistant				·
			Beetle (Epilachna va						
			opper (Empoasca fai		10 miles (10 mil				
			/)			f.			
77			···						
٠			1	SELY RESEMBLES TH	AT SUBMITTE	D	1		
	CHARA lant Shap	·	NAME	OF VARIETY	<del>-  -</del>	IACTER		NAME OF V	ARIETY
	eaf Shape				Seed Coa	at Luster	-		
	eaf Color				Seed Size				
	eaf Size				Seed Sha				
		<del> </del>			Seedling	Pigmentation			
							i e		

VARIETY	NO. OF DAYS MATURITY	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/
				CM Width	CM Length	% Protein	% Oil	SEEDS	POD
Submitted AG3901	138	2.1	94			41.6	21.4	15	
A 3 9 0 4 Name of Similar Variety	139	2.2	99			40.3	20.0	13	

# PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A<sub>2</sub> in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

# ASGROW SEED COMPANY PVP APPLICATION AG3901

#### EXHIBIT D

# Additional Description of AG3901 Soybean

AG3901 is a late maturity group III variety with resistance to Roundup th herbicide. It has very high yield potential. It has superior yields to lines of similar maturity and has excellent agronomic characteristics. In tests, it has beat Asgrow A3834 by 103 % overall, winning at 8 of 12 locations. AG3901 would be grown in the late Group III growing areas of the corn belt, including Iowa, Illinois, Missouri, Indiana, and Nebraska. It is average in attractiveness.

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# ASGROW SEED COMPANY PVP APPLICATION AG3901

# **EXHIBIT E**

# Statement of Basis of Applicant Ownership

AG3901 was originated and developed by Dr. Craig K. Moots, an Asgrow soybean breeder. By agreement with Asgrow Seed Company, all rights to any invention, discovery or development made by employees are assigned to the company. No rights of such invention, discovery or development are returned to the employee.